PME RESEARCH LABORATORY, FEBRUARY 1980

PROJECT TITLE : PRODUCT RESEARCH

PERIOD COVERED : FEBRUARY 1980

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GAS CHROMATOGRAPHIC INVESTIGATIONS.

- Assistance was given to P. Ghiste for gas phase analysis by capillary gas chromatography (Investigations on "Meerschaum") (1)

- At the request of QC (2), the applicability of several types of capillary columns to routine triacetin determination has been tested. Promising results have been obtained with fused silica capillary columns (high resolution, reduced analysis time).

  Fig. 1 depicts the gas chromatogram of a commercial mixture of mono-, di- and triacetin obtained with a fused silica capillary column (12 m x 0.2 mm; SP 2100), showing the separation of monoacetine and diacetin isomers.

- A new HP-5880A gas chromatograph (double channels with two capillary columns) was set up and four different fused silica capillary columns were tested.

REFERENCES

(1) P. Ghiste, PME Research Laboratory Monthly Progress Report, January 1980

(2) Verbal request of A. Widmer.

Y. Genoud

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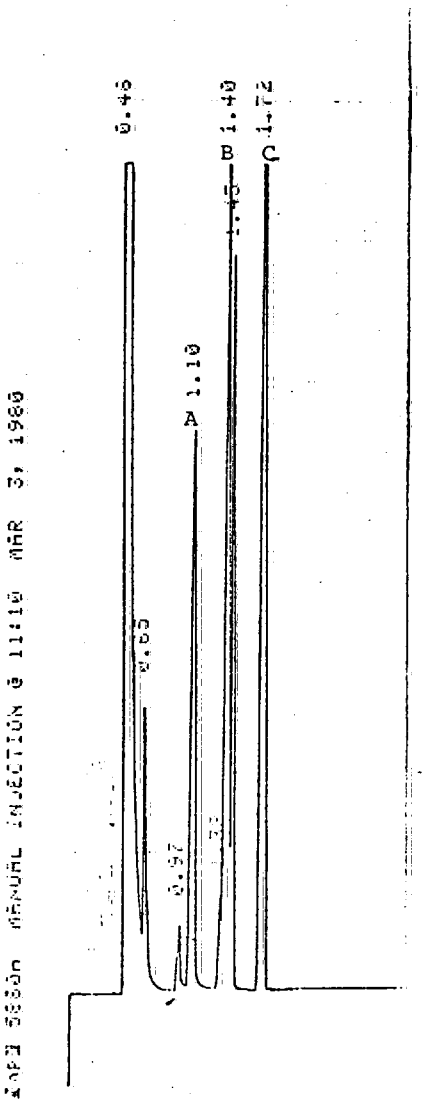
Fig. 1 Separation of Mono(A)-, Di(B) and Triacetin (C) by Capillary Gas Chromatography.



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